

PATENT
Docket No. 492692000300

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Assistant Commissioner for Patents, Washington, D.C. 20231, on February 20, 2002.

Martina Placid

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Nurith KURN

Serial No.: 10/017,880

Filing Date: December 13, 2001

For: METHODS AND COMPOSITIONS FOR
GENERATION OF MULTIPLE COPIES
OF NUCLEIC ACID SEQUENCES AND
METHODS OF DETECTION THEREOF

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 AND § 1.98**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of * is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of * is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.


Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

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Dated: February 20, 2002

Respectfully submitted,

By: 
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for

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PTO SB 21 (08-00)

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/017,880	
	Filing Date	December 13, 2001	
	First Named Inventor	Nurith KURN	
	Group Art Unit	To Be Assigned	
	Examiner Name	To Be Assigned	
Total Number Of Pages In This Submission	12 + 93 Refs.	Attorney Docket No.	492692000300

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declarations	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO-1449 (4 pages in duplicate) 93 cited references Return receipt postcard
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<input checked="" type="checkbox"/> Information Disclosure Statement (3 pages)	<input type="checkbox"/> Request for Refund	
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SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

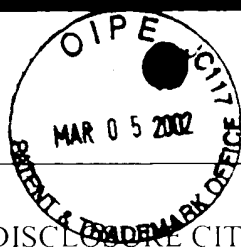
Firm or Individual Name	Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018 Cara M. Coburn, Reg. No. 46,631 for Catherine M. Polizzi, Reg. No. 40,130
Signature	
Date	February 20, 2002

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Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 492692000300

Application Number 10 017,880

Applicant

Nurth KURN

Filing Date December 13, 2001

Group Art Unit To Be Assigned

Mailing Date February 20, 2002

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	12/28/1976	3,999,345	McKelvey			
	2.	11/13/1979	4,174,384	Ullman et al.			
	3.	04/14/1981	4,261,968	Ullman et al.			
	4.	07/03/1984	4,458,066	Caruthers et al.			
	5.	04/15/1986	4,582,788	Erlich			
	6.	10/24/1989	4,876,187	Duck et al.			
	7.	02/26/1991	4,996,143	Heller et al.			
	8.	04/30/1991	5,011,769	Duck et al.			
	9.	12/08/1992	5,169,766	Schuster et al.			
	10.	12/29/1992	5,175,243	Ash			
	11.	02/09/1993	5,185,243	Ullman et al.			
	12.	09/23/1994	5,340,716	Ullman et al.			
	13.	03/21/1995	5,399,491	Kacian et al.			
	14.	04/04/1995	5,403,711	Walder et al.			
	15.	06/27/1995	5,427,929	Richards et al.			
	16.	06/27/1995	5,427,930	Birkenmeyer et al.			
	17.	01/02/1996	5,480,784	Kacian et al.			
	18.	02/13/1996	5,491,063	Fisher et al.			
	19.	04/23/1996	5,510,270	Fodor et al.			
	20.	09/10/1996	5,554,516	Kacian et al.			
	21.	09/10/1996	5,554,517	Davey et al.			
	22.	09/17/1996	5,556,752	Lockhart et al.			
	23.	10/15/1996	5,565,322	Heller			
	24.	11/26/1996	5,578,832	Trulson et al.			
	25.	07/15/1997	5,648,211	Fraiser et al.			
	26.	08/05/1997	5,654,142	Kievits et al.			

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EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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27.	08/26/1997	5,660,988	Duck et al.
28.	10/21/1997	5,679,512	Laney et al.
29.	10/21/1997	5,679,524	Nikiforov et al.
30.	11/04/1997	5,683,879	Laney et al.
31.	11/11/1997	5,686,272	Marshall et al.
32.	11/18/1997	5,688,648	Mathies et al.
33.	12/23/1997	5,700,642	Monforte et al.
34.	01/20/1998	5,709,994	Pease et al.
35.	01/20/1998	5,710,028	Eyal et al.
36.	03/24/1998	5,731,146	Duck et al.
37.	04/28/1998	5,744,312	Mamone et al.
38.	06/09/1998	5,763,178	Chirikjian et al.
39.	06/16/1998	5,766,846	Schlossmacher et al.
40.	10/20/1998	5,824,517	Cleuziat et al.
41.	10/20/1998	5,824,518	Kacian et al.
42.	11/03/1998	5,830,655	Monforte et al.
43.	12/29/1998	5,854,033	Lizardi
44.	03/02/1999	5,876,976	Richards et al.
45.	03/16/1999	5,882,867	Ullman et al.
46.	03/30/1999	5,888,779	Kacian et al.
47.	03/30/1999	5,888,819	Goelet et al.
48.	07/20/1999	5,925,517	Tyagi et al.
49.	12/21/1999	6,004,744	Goelet et al.
50.	12/21/1999	6,004,745	Arnold, Jr. et al.
51.	01/11/2000	6,013,431	Söderlund et al.
52.	02/22/2000	6,027,889	Barany et al.
53.	02/22/2000	6,027,923	Wallace
54.	02/29/2000	6,030,774	Laney et al.
55.	03/14/2000	6,037,152	Richards et al.
56.	07/11/2000	6,087,103	Burner
57.	08/22/2000	6,107,061	Johnson

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Docket Number 492692000300

Application Number 10 917,880

Applicant

Nurith KURN

Filing Date December 13, 2001

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Mailing Date February 20, 2002

58.	06/26/2001	6,251,639 B1	Kurn
59.	08/28/2001	6,280,935 B1	Macevitz
60.	10/23/2001	6,306,365 B1	Ruoslahti et al.
61.	10/30/2001	6,309,843 B1	Timms
62.	11/13/2001	6,316,229 B1	Lizardi et al.
63.	12/04/2001	6,326,142 B1	Royer

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation	
							YES	NO
	64.	04/21/1988	WO 88/02746 A1	WIPO			Abstract	
	65.	09/17/1992	WO 92/15712 A1	WIPO				
	66.	08/10/1995	WO 95/21271 A1	WIPO				
	67.	09/04/1997	WO 97/32040 A2	WIPO				
	68.	12/30/1998	WO 98/59066 A1	WIPO				
	69.	08/26/1999	WO 99/42618 A1	WIPO				
	70.	11/04/1999	WO 99/55912 A1	WIPO				
	71.	02/24/2000	WO 00/09745 A1	WIPO				
	72.	09/28/2000	WO 00/56925 A2	WIPO				
	73.	03/22/2001	WO 01/20035 A2,3	WIPO				

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	74.	Agrawal S. and P.C. Zamecnik. (1990). "Site Specific Functionalization of Oligonucleotides for Attaching Two Different Reporter Groups," <i>Nucl. Acids. Res.</i> 18(18):5419-5423.
	75.	Beaucage S.L. and M.H. Caruthers. (1981). "Deoxynucleoside Phosphoramidites-A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahedron Lett.</i> 22(20):1859-1862.
	76.	Brown et al. (1979). "Chemical Synthesis and Cloning of a Tyrosine tRNA Gene," <i>Meth. Enzymol.</i> 68:109-151.
	77.	DeRisi et al. (1996). "Use of a cDNA Microarray to Analyse Gene Expression Patterns in Human Cancer," <i>Nature Genetics</i> 14:457-460.

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| 78. | Fodor et al. (1991). "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> 251:767-773. |
| 79. | Freier et al. (1986). "Improved Free-Energy Parameters for Predictions of RNA Duplex Stability," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 83:9373-9377. |
| 80. | Goodchild J. (1990). "Conjugates of Oligonucleotides and Modified Oligonucleotides: A Review of Their Synthesis and Properties," <i>Bioconjugate Chem.</i> 1(3):165-187. |
| 81. | Lockhart et al. (1996). "Expression Monitoring by Hybridization to High-Density Oligonucleotide Arrays," <i>Nature Biotechnology</i> 14:1675-1680. |
| 82. | MacMillan A.M. and G.L. Veldine. (1990). "Synthesis of Functionally Tethered Oligodeoxynucleotides by the Convertible Nucleoside Approach," <i>J. Org. Chem.</i> 55:5931-5933. |
| 83. | Makos U. and E.M. Southern. (1992). "Oligonucleotide Hybridisations on Glass Supports: A Novel Linker for Oligonucleotide Synthesis and Hybridisation Properties of Oligonucleotides Synthesised <i>in situ</i> ," <i>Nuc. Acids. Res.</i> 20(7):1679-1684. |
| 84. | Narang et al. (1979). "Improved Phosphotriester Method for the Synthesis of Gene Fragments," <i>Meth. Enzymol.</i> 68:90-99. |
| 85. | Pease et al. (1994). "Light-Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:5022-5026. |
| 86. | Pieles et al. (1989). "Preparation of a Novel Psoralen Containing Deoxyadenosine Building Block for the Facile Solid Phase Synthesis of Psoralen-Modified Oligonucleotides for a Sequence Specific Crosslink to a Given Target Sequence," <i>Nucl. Acids. Res.</i> 17(22):8967-8978. |
| 87. | Roget et al. (1989). "Synthesis and Use of Labelled Nucleoside Phosphoramidite Building Blocks Bearing a Reporter Group: Biotinyl, Dinitrophenyl, Pyrenyl and Dansyl," <i>Nucl. Acids. Res.</i> 17:7643-7651. |
| 88. | Schena et al. (1995a). "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> 270:467-470. |
| 89. | Schena et al. (1995b). "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 93:10614-10619. |
| 90. | Shalon et al. (1996). "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-Color Fluorescent Probe Hybridization," <i>Genome Res.</i> 6:639-645. |
| 91. | Tesler et al. (1989). "Synthesis and Characterization of DNA Oligomers and Duplexes Containing Covalently Attached Molecular Labels: Comparison of Biotin, Fluorescein, and Pyrene Labels by Thermodynamic and Optical Spectroscopic Measurements," <i>J. Am. Chem. Soc.</i> 111:6966-6976. |
| 92. | Tinoco et al. (1973). "Improved Estimation of Secondary Structure in Ribonucleic Acids," <i>Nature New Bio.</i> 246:40-41. |
| 93. | Wu D.Y. and R.B. Wallace. (1989). "The Ligation Amplification Reaction (LAR)-Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <i>Genomics</i> 4:560-569. |

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